

## CLAIMS

What is claimed is:

1. A cDNA encoding a human G protein-coupled receptor comprising  
SEQ.ID.NO.: 1.
- 5 2. A human G protein-coupled receptor encoded by the cDNA of  
SEQ.ID.NO.: 1 comprising SEQ.ID.NO.: 2.
3. A Plasmid comprising a Vector and the cDNA of SEQ.ID.NO.:1.
4. A Host Cell comprising the Plasmid of claim 3.
5. A cDNA encoding a human G protein-coupled receptor comprising  
10 SEQ.ID.NO.: 3.
6. A human G protein-coupled receptor encoded by the cDNA of  
SEQ.ID.NO.: 3 comprising SEQ.ID.NO.: 4.
7. A Plasmid comprising a Vector and the cDNA of SEQ.ID.NO.:3.
8. A Host Cell comprising the Plasmid of claim 7.
- 15 9. A cDNA encoding a human G protein-coupled receptor comprising  
SEQ.ID.NO.: 5.
10. A human G protein-coupled receptor encoded by the cDNA of  
SEQ.ID.NO.: 5 comprising SEQ.ID.NO.: 6.
11. A Plasmid comprising a Vector and the cDNA of SEQ.ID.NO.:5.
- 20 12. A Host Cell comprising the Plasmid of claim 11.
13. A cDNA encoding a human G protein-coupled receptor comprising  
SEQ.ID.NO.: 7.

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14. A human G protein-coupled receptor encoded by the cDNA of  
SEQ.ID.NO.: 7 comprising SEQ.ID.NO.: 8.
15. A Plasmid comprising a Vector and the cDNA of SEQ.ID.NO.:7.
16. A Host Cell comprising the Plasmid of claim 15.
- 5 17. A cDNA encoding a human G protein-coupled receptor comprising  
SEQ.ID.NO.: 9.
18. A human G protein-coupled receptor encoded by the cDNA of  
SEQ.ID.NO.: 9 comprising SEQ.ID.NO.: 10.
19. A Plasmid comprising a Vector and the cDNA of SEQ.ID.NO.:9.
- 10 20. A Host Cell comprising the Plasmid of claim 19.
21. A cDNA encoding a human G protein-coupled receptor comprising  
SEQ.ID.NO.: 11.
22. A human G protein-coupled receptor encoded by the cDNA of  
SEQ.ID.NO.: 11 comprising SEQ.ID.NO.:12.
- 15 23. A Plasmid comprising a Vector and the cDNA of SEQ.ID.NO.:11.
24. A Host Cell comprising the Plasmid of claim 23.
25. A cDNA encoding a human G protein-coupled receptor comprising  
SEQ.ID.NO.: 13.
26. A human G protein-coupled receptor encoded by the cDNA of  
20 SEQ.ID.NO.: 13 comprising SEQ.ID.NO.: 14.
27. A Plasmid comprising a Vector and the cDNA of SEQ.ID.NO.:13.
28. A Host Cell comprising the Plasmid of claim 27.
29. A cDNA encoding a human G protein-coupled receptor comprising

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SEQ.ID.NO.: 15.

30. A human G protein-coupled receptor encoded by the cDNA of

SEQ.ID.NO.: 15 comprising SEQ.ID.NO.: 16.

31. A Plasmid comprising a Vector and the cDNA of SEQ.ID.NO.:15.

5 32. A Host Cell comprising the Plasmid of claim 31.

33. A cDNA encoding a human G protein-coupled receptor comprising  
SEQ.ID.NO.: 17.

34. A human G protein-coupled receptor encoded by the cDNA of  
SEQ.ID.NO.: 17 comprising SEQ.ID.NO.: 18.

10 35. A Plasmid comprising a Vector and the cDNA of SEQ.ID.NO.:17.

36. A Host Cell comprising the Plasmid of claim 35.

37. A cDNA encoding a human G protein-coupled receptor comprising  
SEQ.ID.NO.: 19.

38. A human G protein-coupled receptor encoded by the cDNA of  
15 SEQ.ID.NO.: 19 comprising SEQ.ID.NO.: 20.

39. A Plasmid comprising a Vector and the cDNA of SEQ.ID.NO.:19.

40. A Host Cell comprising the Plasmid of claim 39.

41. A cDNA encoding a human G protein-coupled receptor comprising  
SEQ.ID.NO.: 21.

20 42. A human G protein-coupled receptor encoded by the cDNA of  
SEQ.ID.NO.: 21 comprising SEQ.ID.NO.: 22.

43. A Plasmid comprising a Vector and the cDNA of SEQ.ID.NO.:21.

44. A Host Cell comprising the Plasmid of claim 43.

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45. A cDNA encoding a human G protein-coupled receptor comprising  
SEQ.ID.NO.: 23.
46. A human G protein-coupled receptor encoded by the cDNA of  
SEQ.ID.NO.: 23 comprising SEQ.ID.NO.: 24.
- 5 47. A Plasmid comprising a Vector and the cDNA of SEQ.ID.NO.: 23.
48. A Host Cell comprising the Plasmid of claim 47.
49. A cDNA encoding a human G protein-coupled receptor comprising  
SEQ.ID.NO.: 25.
50. A human G protein-coupled receptor encoded by the cDNA of  
10 SEQ.ID.NO.: 25 comprising SEQ.ID.NO.: 26.
51. A Plasmid comprising a Vector and the cDNA of SEQ.ID.NO.:25.
52. A Host Cell comprising the Plasmid of claim 51.
53. A cDNA encoding a human G protein-coupled receptor comprising  
SEQ.ID.NO.: 27.
- 15 54. A human G protein-coupled receptor encoded by the cDNA of  
SEQ.ID.NO.: 27 comprising SEQ.ID.NO.: 28.
55. A Plasmid comprising a Vector and the cDNA of SEQ.ID.NO.:27.
56. A Host Cell comprising the Plasmid of claim 55.
57. A cDNA encoding a human G protein-coupled receptor comprising  
20 SEQ.ID.NO.: 29.
58. A human G protein-coupled receptor encoded by the cDNA of  
SEQ.ID.NO.: 29 comprising SEQ.ID.NO.: 30.
59. A Plasmid comprising a Vector and the cDNA of SEQ.ID.NO.:29.

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60. A Host Cell comprising the Plasmid of claim 59.
61. A cDNA encoding a human G protein-coupled receptor comprising  
SEQ.ID.NO.: 31.
62. A human G protein-coupled receptor encoded by the cDNA of  
5 SEQ.ID.NO.: 31 comprising SEQ.ID.NO.: 32.
63. A Plasmid comprising a Vector and the cDNA of SEQ.ID.NO.:31.
64. A Host Cell comprising the Plasmid of claim 63.
65. A cDNA encoding a human G protein-coupled receptor comprising  
SEQ.ID.NO.: 33.
- 10 66. A human G protein-coupled receptor encoded by the cDNA of  
SEQ.ID.NO.: 33 comprising SEQ.ID.NO.: 34.
67. A Plasmid comprising a Vector and the cDNA of SEQ.ID.NO.:33.
68. A Host Cell comprising the Plasmid of claim 67.
69. A cDNA encoding a human G protein-coupled receptor comprising  
15 SEQ.ID.NO.: 35.
70. A human G protein-coupled receptor encoded by the cDNA of  
SEQ.ID.NO.: 35 comprising SEQ.ID.NO.: 36.
71. A Plasmid comprising a Vector and the cDNA of SEQ.ID.NO.:35.
72. A Host Cell comprising the Plasmid of claim 71.
- 20 73. A cDNA encoding a human G protein-coupled receptor comprising  
SEQ.ID.NO.: 37.
74. A human G protein-coupled receptor encoded by the cDNA of  
SEQ.ID.NO.: 37 comprising SEQ.ID.NO.: 38.

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75. A Plasmid comprising a Vector and the cDNA of SEQ.ID.NO.:37.
76. A Host Cell comprising the Plasmid of claim 75.

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